

### Amendments to the Claims

1. (Original) A method of configuring a data center, wherein the data  
center has associated capacities for hosting the operation of computing equipment, the  
method comprising:  
for each computing mechanism in a set of computing mechanisms, defining a  
corresponding equipment unit describing one or more characteristics of said computing  
mechanism;  
aggregating said characteristics described in said equipment units corresponding  
to a selected subset of said computing mechanisms; and  
determining whether the capacities of the data center can accommodate said  
aggregated characteristics.

2. (Original) The method of claim 1, further comprising:  
if the associated capacities of the data center cannot accommodate said  
aggregated characteristics, modifying said selected subset of said computing  
mechanisms.

3. (Original) The method of claim 1, further comprising:  
if the associated capacities of the data center cannot accommodate said  
aggregated characteristics, re-designing the data center to increase one or more of the  
associated capacities.

4. (Original) The method of claim 1, wherein said defining an equipment  
unit comprises:  
defining an interchangeable equipment unit comprising selected characteristics of  
two or more substitutable computing mechanisms.

5. (Original) The method of claim 1, wherein the associated capacities of  
the data center include one or more of: electrical power and cooling.

2 6. (Original) The method of claim 1, wherein the associated capacities of  
the data center include one or more of: electrical power, cooling and physical space.

2 7. (Original) The method of claim 1, wherein the associated capacities of  
the data center include one or more of: electrical power, cooling, physical space and  
weight.

2 8. (Original) The method of claim 1, wherein the associated capacities of  
the data center include one or more of: electrical power, cooling, physical space, weight  
and data connectivity.

2 9. (Original) The method of claim 1, wherein said characteristics  
described in an equipment unit for a corresponding computing mechanism include one or  
more of:  
4 electrical power requirement for operating said computing mechanism; and  
cooling requirement for operating said computing mechanism.

2 10. (Original) The method of claim 9, wherein said characteristics further  
include a measure of physical space required for situating said computing mechanism in  
the data center.

2 11. (Original) The method of claim 9, wherein said characteristics further  
include a weight of said computing mechanism.

2 12. (Original) The method of claim 9, wherein said characteristics further  
include a connectivity requirement of said computing mechanism.

2 13. (Original) The method of claim 9, wherein said characteristics further  
include a functional capability of said computing mechanism.

14. (Original) The method of claim 1, wherein said computing

2 mechanisms include one or more computer servers.

15. (Original) The method of claim 14, wherein said computing  
2 mechanisms further include one or more storage devices.

16. (Original) The method of claim 14, wherein said computing  
2 mechanisms further include one or more communication devices.

17. (Original) A computer readable storage medium storing instructions  
2 that, when executed by a computer, cause the computer to perform a method of  
configuring a data center, wherein the data center has associated capacities for hosting the  
4 operation of computing equipment, the method comprising:  
for each computing mechanism in a set of computing mechanisms, defining a  
6 corresponding equipment unit describing one or more characteristics of said computing  
mechanism;  
8 aggregating said characteristics described in said equipment units corresponding  
to a selected subset of said computing mechanisms; and  
10 determining whether the capacities of the data center can accommodate said  
aggregated characteristics.

18. (Original) A method of configuring a computer equipment operating  
2 area, comprising:  
identifying one or more limiting capacities of the computer operating area;  
4 creating, for each computing equipment item in a set of computing equipment  
items, a profile comprising one or more characteristics of said computing equipment  
6 item;  
selecting a first subset of said computing equipment items for possible installation  
8 in the computer operating area;  
combining said characteristics from said profiles corresponding to said first subset  
10 of said computing equipment items; and  
if said combined characteristics exceed said limiting capacities, selecting a second

12 subset of said computing equipment items.

19. (Original) The method of claim 18, further comprising:  
2 for two or more of said computing equipment items that are functionally  
interchangeable, creating an interchangeable profile comprising characteristics  
4 encompassing either of said two or more computing equipment items.

20. (Original) The method of claim 18, wherein said limiting capacities  
2 include one or more of: electrical power, cooling and physical space.

21. (Original) The method of claim 18, wherein said limiting capacities  
2 include one or more of: electrical power, cooling, physical space, weight and data  
connectivity.

22. (Original) The method of claim 18, wherein a first profile  
2 corresponding to a first computer equipment item describes one or more of the following  
characteristics of said first computer equipment item:  
4 an electrical power requirement for operating said first computer equipment item;  
and  
6 a cooling requirement for operating said first computer equipment item.

23. (Original) The method of claim 22, wherein said first profile further  
2 describes one or more of the following characteristics of said first computer equipment  
item:  
4 a size of said first computer equipment item;  
a weight of said first computer equipment item; and  
6 a data connectivity of said first computer equipment item.

24. (Original) The method of claim 22, wherein said first profile further  
2 describes a functional capability of said first computer equipment item.

25. (Original) The method of claim 18, wherein said computing  
2 equipment items include one or more computers and one or more storage devices.

26. (Original) The method of claim 25, wherein said computing  
2 equipment items further include one or more communication devices.

27. (Original) A method of designing a data center for operating computer  
2 equipment, comprising:

(a) defining a proxy for each member of a set of computer equipment,  
4 wherein said proxy describes requirements of said member, including:

- (i) a power requirement for operating said member;
- 6 (ii) a cooling requirement for operating said member; and
- (iii) a physical space requirement for said member;

8 (b) combining said proxy requirements for each member of a first subset of  
said computer equipment; and

10 (c) determining whether the data center can accommodate said combined  
proxy requirements.

28. (Original) The method of claim 27, further comprising:

2 (d) if the data center cannot accommodate said combined proxy requirements,  
repeating said (b) and (c) for a second subset of said computer equipment.

29. (Original) The method of claim 27, wherein said proxy further  
2 describes:

- (iv) a connectivity requirement for operating said member.

30. (Original) The method of claim 27, wherein said proxy further  
2 describes:

- (iv) a weight of said member.

31. (Original) The method of claim 27, wherein said proxy further

2 describes:

(iv) a functional capability of said member.

32. (Original) The method of claim 27, wherein said determining  
2 comprises:

(c') if the data center comprises an existing structure, determining whether the  
4 data center has a limited capacity for:

- (i) providing power for operating the computer equipment;
- 6 (ii) cooling the computer equipment; and
- (iii) providing space for the computer equipment.

33. (Original) The method of claim 32, wherein said determining further  
2 comprises determining whether the data center has a limited capacity for:

- (vi) supporting the weight of the computer equipment; and
- 4 (v) providing data connectivity required by the computer equipment.

34. (Original) The method of claim 27, wherein said determining  
2 comprises:

(c') determining whether the data center can be structured to provide  
4 sufficient:

- (i) power;
- 6 (ii) cooling; and
- (iii) space

8 to accommodate said combined proxy requirements.

35. (Original) The method of claim 34, wherein said determining further  
2 comprises determining whether the data center can be structured to provide sufficient:

- (iv) load-bearing capacity; and
- 4 (v) data connectivity

to accommodate said combined proxy requirements.

36. (Original) A computer readable storage medium storing instructions  
2 that, when executed by a computer, cause the computer to perform a method of designing  
a data center for operating computer equipment, the method comprising:  
4 (a) defining a proxy for each member of a set of computer equipment,  
wherein said proxy describes requirements of said member, including:  
6 (i) a power requirement for operating said member;  
(ii) a cooling requirement for operating said member; and  
8 (iii) a physical space requirement for said member;  
(b) combining said proxy requirements for each member of a first subset of  
10 said computer equipment; and  
(c) determining whether the data center can accommodate said combined  
12 proxy requirements.

37. (Original) A system for configuring a data center, comprising:  
2 a first input module configured to receive a set of capacities of the data center;  
a second input module configured to receive requirements relating to each item in  
4 a set of computer equipment;  
a profiler configured to generate a total of said requirements for a first subset of  
6 said computer equipment; and  
a comparator configured to compare said total requirements with said data center  
8 capacities.

38. (Original) The system of claim 37, wherein said profiler is further  
2 configured to generate a total of said requirements for a second subset of said computer  
equipment if said total requirements for said first subset of computer equipment exceed  
4 said data center capacities.

39. (Original) The system of claim 37, wherein said profiler is configured  
2 to generate a first profile encompassing said requirements for a first computer equipment  
item.

40. (Original) The system of claim 39, wherein said profiler is further  
2 configured to generate a first interchangeable profile encompassing either of said first  
computer equipment item and a second computer equipment item;  
4 wherein said first computer equipment item and said second computer equipment  
item are functionally substitutable.